



Masquerade

by Arya Akhavan (January 2014)

Angles for R.I. = 1.500

67 + 12 girdles = 79 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.013 T/W = 0.092 U/W = 0.088

P/W = 0.449 C/W = 0.143

Vol./W³ = 0.178

PAVILION

P1	43.39°	17-31-65-79	Cut to centerpoint.
P2	43.25°	19-29-67-77	Meet at culet.
P3	43.32°	03-45-51-93	Meet at culet.
P4	42.89°	24-72	Meet at culet.
P5	43.27°	96-48	Meet at culet.
G1	90.00°	96-48	Set stone width.
G2	90.00°	10-38-58-86	Meet P3, P5, G1
G3	90.00°	19-29-67-77	Level girdle.
G4	90.00°	24-72	Level girdle.
P6	65.19°	10-38-58-86	Level girdle.
P7	42.25°	02-46-50-94	Meet P3, P5, G1, G2, P6
P8	41.50°	01-47-49-95	Meet P5, P7
P9	41.01°	16-32-64-80	Meet P1, P3, P6

CROWN

C1	27.68°	96-48	Set girdle width.
C2	28.08°	10-38-58-86	Level girdle.
C3	23.04°	19-29-67-77	Level girdle.
C4	24.13°	24-72	Level girdle.
C5	22.90°	18-30-66-78	Meet G2, G3, C2, C3
C6	12.23°	20-28-68-76	Meet C3, C4
C7	12.20°	19-29-67-77	Meet C3, C5, C6
C8	12.21°	96-48	Meet C1, C2
C9	12.23°	01-47-49-95	Meet C7, C8
C10	12.23°	18-30-66-78	Meet C7, C8, C9
T	0.00°	Table	Meet C6, C7; C7, C8, C9, C10

I have absolutely no idea what ridiculous mess created this design, but it involved a lot of random scaling, stretching, and mirroring in GemCAD. A totally unique design with really cool effects from the massive C2 facets. Works in materials from petalite to rutile (RI = 1.50 - 2.62) with no changes, but I prefer peridot.

Suggested length = 9-15 mm

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